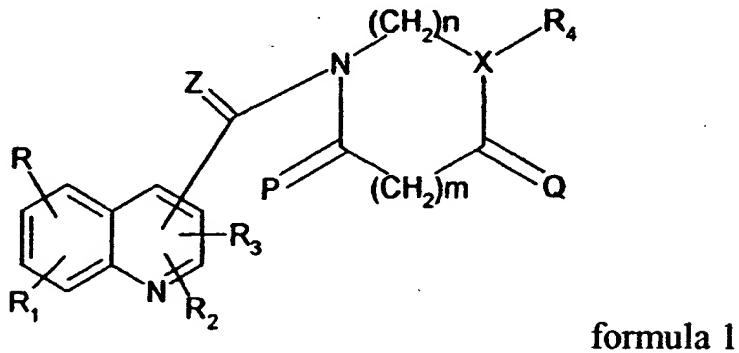


MARKED-UP VERSION OF WRITTEN CLAIM

1. (Amended) A quinolineQuinoline derivatives according to the formula 1



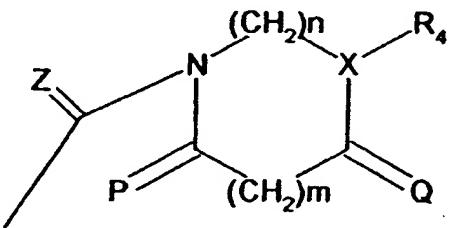
in which

R, R₁, R₂, R₃ can be attached to any of the quinoline carbon atoms C₂ to C₈, are identical~~the same~~ or different and independently of one another denote hydrogen, straight-chain or branched C₁₋₈ alkyl, hydroxyl, C₃₋₇ cycloalkyl, straight-chain or branched C₁₋₈ alkylcarbonyl, straight-chain or branched C₁₋₈ alkoxy, halogen, aryl-C₁₋₈ alkoxy, nitro, amino, mono-C₁₋₄ alkylamino, di-C₁₋₄ alkylamino, C₁₋₈ alkoxy carbonylamino, C₁₋₆ alkoxy carbonylamino-C₁₋₈ alkyl, cyano, straight-chain or branched cyano-(C₁-C₆)-alkyl, carboxyl, C₁₋₈ alkoxy carbonyl, C₁₋₄ alkyl which is substituted by one or more fluorine atoms, carboxy-C₁₋₈ alkyl or C₁₋₈ alkoxy carbonyl-C₁₋₆ alkyl, C₂₋₆ alkenyl, C₂₋₆ alkynyl, straight-chain or branched cyano-C₁₋₆ alkyl, aryl, where the aryl radical can be unsubstituted or mono- or polysubstituted by identical~~the same~~ or different substituents from the group consisting of halogen, straight-chain or branched C₁₋₈ alkyl, C₃₋₇ cycloalkyl, carboxyl, straight-chain or branched C₁₋₈ alkoxy carbonyl, by trifluoromethyl, hydroxyl, straight-chain or branched C₁₋₈ alkoxy, benzyloxy, nitro, amino, mono-C₁₋₄ alkylamino, di-C₁₋₄ alkylamino, cyano, straight-chain or branched cyano-C₁₋₆ alkyl,

where R and R₁ or R₂ and R₃ can form a fused aromatic 6-membered ring with the quinoline ring forming an acridine ring which for its part can be substituted at any C atom ring position by the radicals R, R₁, R₂ and R₃ having the meanings mentioned above;

P and Q are each 2 hydrogen atoms;

Z is oxygen or sulfur, where the radical



substituted on the quinoline heterocycle can be attached to C atoms C₂₋₈ of the quinoline ring skeleton;

X is nitrogen or C-R₅, where R₅ is hydrogen or C₁₋₆ alkyl;

n,m are independently of one another is an integera cardinal number between 0 and 3, with the proviso that when n is 0, X is a CR₅R₆ group wherein R₅ and R₆ are independently of one another represent hydrogen or C₁₋₆ alkyl, and that the nitrogen atom adjacent to the C=Z group is substituted by a hydrogen atom or a C₁₋₆ alkyl group;

R₄ is a straight-chain or branched C₁₋₂₀ alkyl radical which can be saturated or unsaturated, with one to three double and/or triple bonds, and which can be unsubstituted or can optionally be substituted at the same or different C atoms by one, two or more aryl, heteroaryl, halogen, cyano, C≡NH-(NH₂), C₁₋₆ alkoxy carbonylamino, C₁₋₆ alkoxy, amino, mono-C₁₋₄ alkylamino or di-C₁₋₄ alkylamino; C₁₋₄-alkoxy-carbonyl, a C₆₋₁₄ aryl radical, C₆₋₁₄ aryl-C₁₋₄ alkyl radical, or a a C₂₋₁₀ heteroaryl or C₂₋₁₀ heteroaryl-C₁₋₄ alkyl radical which contains one or more heteroatoms selected from the group consisting of N, O and S, where the C₁₋₄ alkyl radical can be unsubstituted or mono- or polysubstituted by the same identical or different substituents from the group consisting of C₁₋₆ alkyl, halogen or oxo (=O), and where the C₆₋₁₄ aryl or C₂₋₁₀ heteroaryl radical can be unsubstituted or

mono- or polysubstituted by identical~~the same~~ or different substituents from the group consisting of straight-chain or branched C₁₋₈ alkyl, C₃₋₇ cycloalkyl, halogen, cyano, C₁₋₆ alkoxy carbonylamino, C₁₋₆ alkoxy, carboxyl, C₁₋₈ alkoxy carbonyl, straight-chain or branched C₁₋₆ alkyl which is substituted by one or more fluorine atoms, hydroxyl, straight-chain or branched C₁₋₈ alkoxy, where adjacent oxygen atoms can~~may~~ also be linked by C₁₋₂ alkylene groups, benzyloxy, nitro, amino, mono-C₁₋₄ alkylamino, di-C₁₋₄ alkylamino, aryl, which can be unsubstituted or mono- or polysubstituted by identical~~the same~~ or different substituents from the group consisting of straight-chain or branched C₁₋₈ alkyl, C₃₋₇ cycloalkyl, carboxyl, straight-chain or branched C₁₋₈ alkoxy carbonyl, trifluoromethyl, hydroxyl, straight-chain or branched C₁₋₈ alkoxy, benzyloxy, nitro, amino, mono-C₁₋₄ alkylamino, di-C₁₋₄ alkylamino, cyano, straight-chain or branched cyano-C₁₋₆ alkyl;

and their structural isomers and stereoisomers, particularly tautomers, diastereomers and enantiomers, and their pharmaceutically acceptable salts.

REMARKS

As required by the Examiner, Applicants submit herewith a correct marked-up version of amended claim 1 (from the original claim). A clean version is also submitted, which is substantially the same as the clean version of amended claim 1 in the reply to the prior Office Action filed on December 16, 2002 and received by the USPTO on December 20, 2002 with two exceptions. The first exception is that the carbon numbers of the substituents are not put in parenthesis as in the prior submission such that the carbon notations used in the present submission are consistent with the claims as originally filed. The other exception is that the term "by trifluoromethyl" in line 8 of page 5 of the reply to the prior Office Action is now recited as "trifluoromethyl" in amended claim 1 in this submission because the word "by" preceding "trifluoromethyl" does not exist in the claim 1 as filed and should not be inserted there.

Based on the foregoing amendments and remarks, favorable consideration and allowance of all of the claims now present in the application are respectfully requested.

Should the Examiner require or consider it advisable that the claims and/or drawings be amended in formal respects in order to place the case in condition for allowance, then it is respectfully requested that such amendment be carried out by Examiner's Amendment and the case passed to issue. Alternatively, should the Examiner feel that a personal discussion might be helpful in advancing this case to allowance, the Examiner is invited to telephone the undersigned.

The Commissioner is authorized to charge any required fees to Goodwin Procter LLP Deposit Account No. 06-0923.

Respectfully submitted,



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